

State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work

API 47-095-02804 County Tyler District Ellsworth  
Quad Porter Falls 7.5' Pad Name Furbee Field/Pool Name ----  
Farm name Antero Midstream LLC Well Number Forster Unit 2H  
Operator (as registered with the OOG) Antero Resources Corporation  
Address 1615 Wynkoop Street City Denver State CO Zip 80202

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4375478m Easting 518722m  
Landing Point of Curve Northing 4375459.20m Easting 518981.08m  
Bottom Hole Northing 4371067m Easting 520535m

Elevation (ft) 1223' GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine  
Mud Type(s) and Additive(s)  
Air - Foam & 4% KCL  
Mud - Polymer

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Date permit issued 7/26/2022 Date drilling commenced 9/30/2022 Date drilling ceased 1/10/2023  
Date completion activities began 2/28/2023 Date completion activities ceased 4/1/2023  
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 880' Open mine(s) (Y/N) depths No  
Salt water depth(s) ft 959' Void(s) encountered (Y/N) depths No  
Coal depth(s) ft 431' Cavern(s) encountered (Y/N) depths No  
Is coal being mined in area (Y/N) No

Reviewed by:   
**APPROVED**  
**09/22/2023**

API 47-095 - 02804 Farm name Antero Midstream LLC Well number Forster Unit 2H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	28"	20"	125.5'	New	78.67#, X-60	N/A	Y
Surface	17-1/2"	13-3/8"	982'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3395'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	22708'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6963'		4.7#, P-110		
Packer type and depth set		N/A					

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	198 sx	15.6	1.18	233	0'	8 Hrs.
Surface	Class A	739 sx	15.6	1.20	886	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1161 sx	15.6	1.20	1393	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	3503 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.26 (Tail)	4413	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 22708' MD, 7011' TVD (BHL), 7011' TVD (Deepest Point Drilled) Loggers TD (ft) 22708' MD  
 Deepest formation penetrated Marcellus Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 6217'

Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  sonic

Well cored  Yes  No Conventional Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_

Conductor - 0  
 Surface - 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface  
 Intermediate - 1 above float joint, 1 above float collar, 1 every 4th joint to surface  
 Production - 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

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WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS JUN 23 2023

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS WV Department of Environmental Protection

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED N/A

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API 47-095 - 02804 Farm name Antero Midstream LLC Well number Forster Unit 2H

**PERFORATION RECORD**

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
<b>*PLEASE SEE ATTACHED EXHIBIT 1</b>					

Please insert additional pages as applicable.

**STIMULATION INFORMATION PER STAGE**

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
<b>*PLEASE SEE ATTACHED EXHIBIT 2</b>								

Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6865' (TOP) TVD	7160' (TOP) MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface \_\_\_\_\_ psi Bottom Hole --- \_\_\_\_\_ psi DURATION OF TEST --- \_\_\_\_\_ hrs

OPEN FLOW Gas 11145.19 mcfpd Oil 371.22 bpd NGL --- bpd Water 322.57 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	

**\*PLEASE SEE ATTACHED EXHIBIT 3**


Please insert additional pages as applicable.

Drilling Contractor H & P Drilling  
Address 912 N Eagle Valley Rd City Howard State PA Zip 16841

Logging Company Nine Energy Services  
Address 6500 West Fwy City Fort Worth State TX Zip 76116


Cementing Company Schlumberger US Land  
Address 3600 Briarpark Drive City Houston State TX Zip 77042

Stimulating Company Halliburton  
Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

Please insert additional pages as applicable.

Completed by Stefan Gaspar Telephone 303-357-6959  
Signature  Title Permitting Agent Date 6/22/23


Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

09/22/2023 

API 47-095-02804 Farm Name Antero Midstream LLC Well Number Forster Unit 2H					
EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	2/28/2023	22580.5	22536.4	60	Marcellus
2	3/1/2023	22497.39254	22331.3553	60	Marcellus
3	3/1/2023	22295.74781	22129.7105	60	Marcellus
4	3/1/2023	22094.10307	21928.0658	60	Marcellus
5	3/1/2023	21892.45833	21726.4211	60	Marcellus
6	3/1/2023	21690.8136	21524.7763	60	Marcellus
7	3/2/2023	21489.16896	21323.1316	60	Marcellus
8	3/2/2023	21287.52412	21121.4868	60	Marcellus
9	3/2/2023	21085.87939	20919.8421	60	Marcellus
10	3/2/2023	20884.23465	20718.1974	60	Marcellus
11	3/2/2023	20682.58991	20516.5526	60	Marcellus
12	3/3/2023	20480.94518	20314.9079	60	Marcellus
13	3/3/2023	20279.30044	20113.2632	60	Marcellus
14	3/3/2023	20077.6557	19911.6184	60	Marcellus
15	3/3/2023	19876.01096	19709.9737	60	Marcellus
16	3/3/2023	19674.36623	19508.3289	60	Marcellus
17	3/4/2023	19472.72149	19306.6842	60	Marcellus
18	3/4/2023	19271.07675	19105.0395	60	Marcellus
19	3/4/2023	19069.43202	18903.3947	60	Marcellus
20	3/4/2023	18867.78728	18701.75	60	Marcellus
21	3/5/2023	18666.14254	18500.1053	60	Marcellus
22	3/5/2023	18464.49781	18298.4605	60	Marcellus
23	3/5/2023	18262.85307	18096.8158	60	Marcellus
24	3/5/2023	18061.20833	17895.1711	60	Marcellus
25	3/6/2023	17859.5636	17693.5263	60	Marcellus
26	3/6/2023	17657.91886	17491.8816	60	Marcellus
27	3/6/2023	17456.27412	17290.2368	60	Marcellus
28	3/6/2023	17254.62939	17088.5921	60	Marcellus
29	3/6/2023	17052.98465	16886.9474	60	Marcellus
30	3/7/2023	16851.33991	16685.3026	60	Marcellus
31	3/7/2023	16649.69518	16483.6579	60	Marcellus
32	3/7/2023	16448.05044	16282.0132	60	Marcellus
33	3/7/2023	16246.4057	16080.3684	60	Marcellus
34	3/7/2023	16044.76096	15878.7237	60	Marcellus
35	3/7/2023	15843.11623	15677.0789	60	Marcellus
36	3/8/2023	15641.47149	15475.4342	60	Marcellus
37	3/8/2023	15439.82675	15273.7895	60	Marcellus
38	3/8/2023	15238.18202	15072.1447	60	Marcellus
39	3/8/2023	15036.53728	14870.5	60	Marcellus
40	3/8/2023	14834.89254	14668.8553	60	Marcellus
41	3/9/2023	14633.24781	14467.2105	60	Marcellus
42	3/9/2023	14431.60307	14265.5658	60	Marcellus
43	3/9/2023	14229.95833	14063.9211	60	Marcellus
44	3/9/2023	14028.3136	13862.2763	60	Marcellus
45	3/9/2023	13826.66886	13660.6316	60	Marcellus
46	3/9/2023	13625.02412	13458.9868	60	Marcellus
47	3/10/2023	13423.37939	13257.3421	60	Marcellus
48	3/10/2023	13221.73465	13055.6974	60	Marcellus
49	3/10/2023	13020.08991	12854.0526	60	Marcellus
50	3/10/2023	12818.44518	12652.4079	60	Marcellus
51	3/10/2023	12616.80044	12450.7632	60	Marcellus
52	3/11/2023	12415.1557	12249.1184	60	Marcellus
53	3/11/2023	12213.51096	12047.4737	60	Marcellus
54	3/11/2023	12011.86623	11845.8289	60	Marcellus
55	3/11/2023	11810.22149	11644.1842	60	Marcellus
56	3/11/2023	11608.57675	11442.5395	60	Marcellus
57	3/11/2023	11406.93202	11240.8947	60	Marcellus
58	3/11/2023	11205.28728	11039.25	60	Marcellus
59	3/12/2023	11003.64254	10837.6053	60	Marcellus
60	3/12/2023	10801.99781	10635.9605	60	Marcellus
61	3/12/2023	10600.35307	10434.3158	60	Marcellus
62	3/12/2023	10398.70833	10232.6711	60	Marcellus
63	3/12/2023	10197.0636	10031.0263	60	Marcellus
64	3/12/2023	9995.41886	9829.38158	60	Marcellus
65	3/12/2023	9793.774123	9627.73684	60	Marcellus
66	3/13/2023	9592.129386	9426.09211	60	Marcellus
67	3/13/2023	9390.484649	9224.44737	60	Marcellus
68	3/13/2023	9188.839912	9022.80263	60	Marcellus
69	3/13/2023	8987.195175	8821.15789	60	Marcellus
70	3/13/2023	8785.550439	8619.51316	60	Marcellus
71	3/13/2023	8583.905702	8417.86842	60	Marcellus
72	3/14/2023	8382.260965	8216.22368	60	Marcellus
73	3/14/2023	8180.616228	8014.57895	60	Marcellus
74	3/14/2023	7978.971491	7812.93421	60	Marcellus
75	3/14/2023	7777.326754	7611.28947	60	Marcellus
76	3/14/2023	7575.682018	7409.64474	60	Marcellus
77	3/14/2023	7374.037281	7208	60	Marcellus

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## EXHIBIT 2

Stage No.	Stimulations Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/ other (units)
1	2/28/2023	70.79	9224	6914	3626	177040	215836	N/A
2	3/1/2023	88.32	9619	6216	3627	415860	319635	N/A
3	3/1/2023	90.06	9835	6314	4078	404520	314092	N/A
4	3/1/2023	90.96	9783	6230	4009	414280	294360	N/A
5	3/1/2023	95.55	9906	6425	3855	407760	298905	N/A
6	3/1/2023	95.54	9781	6160	4028	408990	309210	N/A
7	3/2/2023	95.62	9999	7201	3990	414510	308718	N/A
8	3/2/2023	97.94	10018	6038	4065	406857	298155	N/A
9	3/2/2023	96.65	9881	6053	4119	409628	299249	N/A
10	3/2/2023	98.26	10098	6475	3979	406130	286726	N/A
11	3/2/2023	96.53	10021	6458	4181	411760	304136	N/A
12	3/3/2023	93.47	9898	6123	3993	409030	296401	N/A
13	3/3/2023	95.88	10002	5849	4291	419150	306375	N/A
14	3/3/2023	96.36814	9923.657	6170.06	4064.087	410490	297373	N/A
15	3/3/2023	95.23	10051	6057	3916	416960	367085	N/A
16	3/3/2023	94.58	10041	6376	4054	412790	303346	N/A
17	3/4/2023	97.13	10051	6087	4045	412760	290099	N/A
18	3/4/2023	97.76705	9855.278	5899.45	4194.125	414590	297309	N/A
19	3/4/2023	98.04	10001	5954	4480	408577	303178	N/A
20	3/4/2023	97.9	10007	6281	3857	393670	291983	N/A
21	3/5/2023	96.79	10038	6339	4168	411719	302009	N/A
22	3/5/2023	92.63	9948	6124	3928	414250	301685	N/A
23	3/5/2023	98.3	10016	5916	3964	402520	283639	N/A
24	3/5/2023	97.22	9975	6362	4002	414790	301279	N/A
25	3/6/2023	96.34	9984	5780	3943	406210	283705	N/A
26	3/6/2023	96.6	10080	6001	4095	407070	289877	N/A
27	3/6/2023	98.61	10082	6474	4063	409920	288728	N/A
28	3/6/2023	97.68	10040	6545	4156	420660	292106	N/A
29	3/6/2023	95.66	9638	6924	4003	415420	299083	N/A
30	3/7/2023	96.85	9773	6664	4013	412830	294446	N/A
31	3/7/2023	97.38	9706	6019	4053	409820	285912	N/A
32	3/7/2023	98.01	9787	6108	4096	416750	296986	N/A
33	3/7/2023	97.6026	9697.62	5747.73	3986.018	414060	290846	N/A
34	3/7/2023	97.35	9444	6672	4022	409980	292017	N/A
35	3/7/2023	96.83	9514	6882	4036	410690	291969	N/A
36	3/8/2023	96.93	9383	6830	4049	408650	294873	N/A
37	3/8/2023	96.26	9213	6798	3650	411190	286517	N/A
38	3/8/2023	95.28439	9025.696	6451.5	3568.856	420550	290489	N/A
39	3/8/2023	97.8	9472	6857	3665	411100	291635	N/A
40	3/8/2023	96.41	9457	7525	3948	409610	295834	N/A
41	3/9/2023	96.92	9140	7352	4001	409390	298442	N/A
42	3/9/2023	97.37	9164	6445	4033	418990	298921	N/A
43	3/9/2023	96.2	9071	6102	3783	409560	293744	N/A
44	3/9/2023	97.88	9026	6338	4118	414660	291227	N/A
45	3/9/2023	97.82	9089	6803	4014	401370	288839	N/A
46	3/9/2023	97.22	9057	6069	4011	416730	295009	N/A
47	3/10/2023	97.54	8822	6225	4038	412450	295750	N/A
48	3/10/2023	97.47	8751	5364	3696	417140	294333	N/A
49	3/10/2023	96.65	8832	6684	3712	414030	289862	N/A
50	3/10/2023	97.76	8780	5469	3566	418100	287981	N/A
51	3/10/2023	96.29	8589	5080	4036	390500	290858	N/A
52	3/11/2023	96.96	8939	6711	4018	415310	289915	N/A
53	3/11/2023	97.10149	8554.387	5654.14	3799.557	409150	290251	N/A
54	3/11/2023	99.84	8604	6328	3767	422260	297728	N/A
55	3/11/2023	96.4	8553	5821	3750	414870	286272	N/A
56	3/11/2023	98.24	8664	5948	3671	411810	294042	N/A
57	3/11/2023	97.1	8231	6589	3601	410380	286925	N/A
58	3/11/2023	97.22	8262	6430	4037	418030	296778	N/A
59	3/12/2023	97.54	8873	6481	4008	411510	291819	N/A
60	3/12/2023	97.59	8926	6025	3752	417180	301509	N/A
61	3/12/2023	96.62	8814	5602	3734	404310	291355	N/A
62	3/12/2023	98.03	9055	5884	4048	421010	293213	N/A
63	3/12/2023	97.21	8638	6502	3710	419310	292376	N/A
64	3/12/2023	97.64	8470	6093	4014	400760	288284	N/A
65	3/12/2023	97.69	8374	5530	4013	401470	289585	N/A
66	3/13/2023	97.4	8190	5606	3877	401250	288317	N/A
67	3/13/2023	98.05	8377	5483	3672	418070	297907	N/A
68	3/13/2023	99.25	8116	5780	3618	418040	292226	N/A
69	3/13/2023	98.85	8180	6145	3704	418120	301073	N/A
70	3/13/2023	96.9	8016	4544	4031	416580	292461	N/A
71	3/13/2023	97.47	7987	6256	4023	413990	294402	N/A
72	3/14/2023	97.79	7837	5610	4014	419620	300580	N/A
73	3/14/2023	97.96	7705	5541	3642	413730	299254	N/A
74	3/14/2023	99.39	7990	3526	3855	405910	289798	N/A
75	3/14/2023	98.94	7832	5599	3861	415840	294506	N/A
76	3/14/2023	99.68	7659	6109	3954	412400	293635	N/A
77	3/14/2023	97.88	7406	4795	4154	412940	299488	N/A
	AVERAGE	96.5	9,180	6,141	3,938	31,479,911	22,714,471	0

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## EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Shaly Siltstone, tr LS	90	274	90	274
Sandy Siltstone, Coal	274	334	274	334
Silty Sandstone	334	424	334	424
Shaly Siltstone, occ LS	424	634	424	634
Sandy Siltstone, occ LS	634	964	634	964
Shaly Siltstone, occ SS	964	1,024	964	1,024
Shaly Siltstone	1,024	1,434	1,024	1,434
Sandy Siltstone, occ Shale	1,434	1,524	1,434	1,524
Silty Sandstone, tr coal	1,524	1,614	1,524	1,614
Silty Sandstone, coal, tr shale	1,614	1,734	1,614	1,734
Silty Sandstone, occ shale	1,734	1884	1,734	1,884
Shaly Sandstone, coal, occ slst	1,884	2,124	1,884	2,124
Silty Sandstone, coal, occ Shale	2,124	2,080	2,124	2,090
Big Lime	2,106	2,780	2,090	2,798
Fifty Foot Sandstone	2,780	2,998	2,772	3,019
Gordon	2,998	3,210	2,993	3,233
Fifth Sandstone	3,210	3,443	3,207	3,470
Bayard	3,443	3,879	3,444	3,912
Speechley	3,879	4,127	3,886	4,162
Balltown	4,127	4,520	4,136	4,558
Bradford	4,520	5,101	4,532	5,145
Benson	5,101	5,562	5,119	5,610
Alexander	5,562	6,698	5,584	6,799
Sycamore	6,556	6,672	6,629	6,773
Middlesex	6,672	6,767	6,773	6,914
Burkett	6,767	6,799	6,914	6,973
Tully	6,799	6,865	6,973	7,160
Marcellus	6,865	NA	7,160	NA

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LATITUDE 39°32'30"

9,120'

LATITUDE 39°30'00"

3,210' TO BOTTOM HOLE

Antero Resources Corporation Well No. Forster Unit 2H

AS DRILLED DATA: WELL 2H TOP HOLE INFORMATION: N: 377,246ft E: 1,638,304ft LAT: 39°31'43.23" LON: 80°46'56.39" BOTTOM HOLE INFORMATION: N: 362,672ft E: 1,644,011ft LAT: 39°29'19.99" LON: 80°45'40.95" WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS: WELL 2H TOP HOLE INFORMATION: N: 4,375,478m E: 518,722m BOTTOM HOLE INFORMATION: N: 4,371,067m E: 520,535m

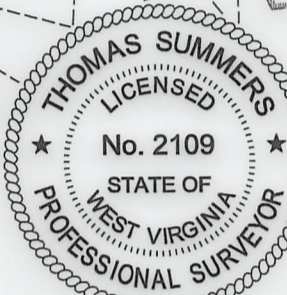
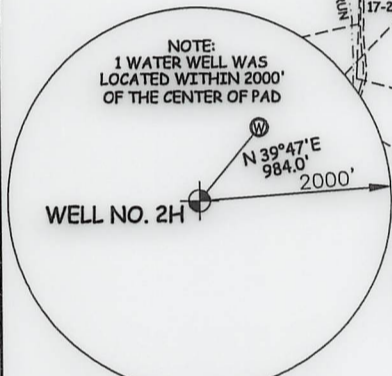
(NAD) 27 (UTM) ZONE 17 COORDS: WELL 2H TOP HOLE INFORMATION: N: 14,354,500ft E: 1,701,794ft POINT OF ENTRY INFORMATION: N: 14,354,655ft E: 1,702,595ft BOTTOM HOLE INFORMATION: N: 14,340,028ft E: 1,707,741ft

WV NORTH ZONE GRID NORTH

MINERAL OWNERSHIP table listing owners A through Z including names like ELISIE M. SNIVELY, ELAINE L. OILER, JON MICHAEL DUMARS ET UX, etc.

ELLSWORTH DISTRICT - TYLER COUNTY table listing well numbers 12-05 through 12-32 and owner names like ROSALIE HENRY, ANTERO MIDSTREAM LLC, etc.

2H BOTTOM HOLE table listing well numbers 17-04 through 23-28 and owner names like ERWAIN PECK, GILBERT EDDY, RICHARD NAPIORKOWSKI, etc.



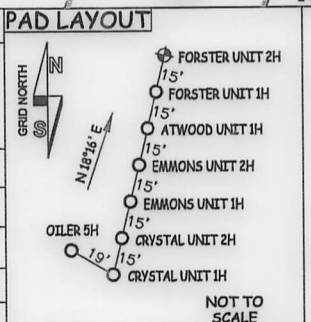
I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS. WILLOW LAND SURVEYING PLLC, 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

JOB # 20-014WA, DRAWING # FORSTER2HAD, SCALE 1" = 2000', MINIMUM DEGREE OF ACCURACY SUBMETER, PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS, STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

LEGEND: Surface Owner Boundary Lines +/-, Interior Surface Tracts +/-, Proposed Well Path, As Drilled Well Path. THOMAS SUMMERS P.S. 2109, DATE 05/11/23, OPERATOR'S WELL# FORSTER UNIT #2H



NOTE: 1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD. 2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ANTERO RESOURCES CORPORATION. 3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION. 4. WLS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTES 2 AND 3, ONLY THE RELATIONSHIP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES. 5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ 47 - 095 - 02804 (IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X STATE COUNTY PERMIT LOCATION: ELEVATION 1,223' -AS BUILT WATERSHED OUTLET MIDDLE ISLAND CREEK QUADRANGLE PORTER FALLS 7.5' DISTRICT ELLSWORTH COUNTY TYLER SURFACE OWNER ANTERO MIDSTREAM LLC ACREAGE 50 ACRES +/-

OIL & GAS ROYALTY OWNER ELAINE L. OILER; ELISIE M. SNIVELY; JON MICHAEL DUMARS ET UX; CLARENCE MUTSCHELKNAUS; LEASE ACREAGE 50 AC +/-; 53.75 AC +/-; 56 AC +/-; 49 AC +/-; ROBERT LOUIS BARD; SUSAN LANCASTER GREEN; ELIZABETH G. MORRISON RICHIE; BRC APPALACHIAN MINERALS I LLC; BILLIE BLOYD; BRC APPALACHIAN MINERALS I LLC; 30 AC +/-; 49.33 AC +/-; 54.56 AC +/-; 93.25 AC +/-; 70 AC +/-; 13 AC +/-; PATRICK G. KELLER; JETT CARNEY GILL; STAR FURNITURE COMPANY OF WEST UNION; BRC APPALACHIAN MINERALS I LLC; ED BROOME INC.; 5 AC +/-; 10.38 AC +/-; 1.02 AC +/-; 121 AC +/-; 109.25 AC +/-; ANDREW HAUGHT ET UX; ANDREW HAUGHT ET UX; TINA LOUISE ZEDIKER ET AL; KAREN & ROGER ENTERPRISES LLC; 351.25 AC +/-; 15 AC +/-; 35 AC +/-; 13.13 AC +/- PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) AS DRILLED PLUG & ABANDON CLEAN OUT & REPLUG TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,011' TVD 22,708' MD WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT KEVIN ELLIS ADDRESS 1615 WYNKOOP ST. ADDRESS 535 WHITE OAKS BLVD BRIDGEPORT, WV 26330



LATITUDE 39°32'30"

9,120'

LATITUDE 39°30'00"

3,210' TO BOTTOM HOLE

Antero Resources Corporation  
Well No. Forster Unit 2H

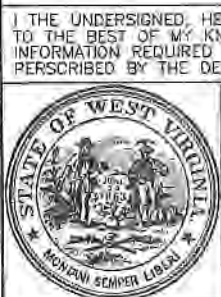
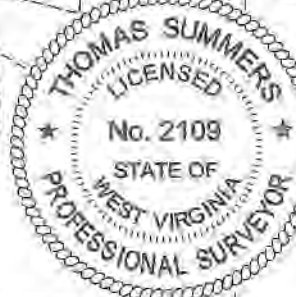
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N: 14,340,028ft E: 1,707,741ft

NOTE:  
1 WATER WELL WAS LOCATED WITHIN 2000' OF THE CENTER OF PAD

WELL NO. 2H

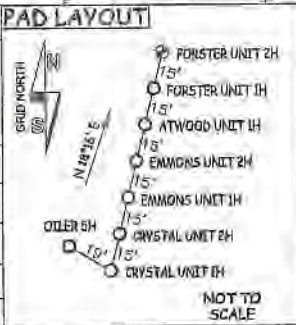


STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WILLOW LAND SURVEYING PLLC  
220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

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DRAWING # FORSTER2HAD  
SCALE 1" = 2000'  
MINIMUM DEGREE OF ACCURACY SUBMETER  
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS  
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

LEGEND  
--- Surface Owner Boundary Lines +/-  
--- Interior Surface Tracts +/-  
--- Proposed Well Path  
--- As Drilled Well Path  
THOMAS SUMMERS P.S. 2109  
DATE 05/11/23  
OPERATOR'S WELL# FORSTER UNIT #2H



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SURFACE OWNER ANTERO MIDSTREAM LLC ACREAGE 50 ACRES +/-  
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ROBERT LOUIS BARD; SUSAN LANCASTER GREEN; ELIZABETH G. MORRISON RICHIE; BRC APPALACHIAN MINERALS I LLC; BILLIE BLOYD; BRC APPALACHIAN MINERALS I LLC; 30 AC ±; 49.33 AC ±; 54.58 AC ±; 63.25 AC ±; 70 AC ±; 13 AC ±;  
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ADDRESS 1615 WYNKOOP ST. ADDRESS 535 WHITE OAKS BLVD  
FORM WW-6 DENVER, CO 80202 BRIDGEPORT, WV 26330

WV NORTH ZONE GRID NORTH

4,049' TO BOTTOM HOLE

4,733'

LONGITUDE 80°45'00"

LONGITUDE 80°45'00"

Table listing mineral ownership for Ellsworth District - Tyler County, including names like Rosalie Henry, Antero Midstream LLC, Coastal Forest Resources Co, etc.

Table listing mineral ownership for Ellsworth District - Tyler County, including names like Erwain Peck, Gilbert Eddy, Richard Napierkowski, etc.

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	2/28/2023
Job End Date:	3/14/2023
State:	West Virginia
County:	Tyler
API Number:	47-095-02804-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Beech Run Forster 2H
Latitude:	39.52867000
Longitude:	-80.78233000
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,010
Total Base Water Volume (gal):	23,785,032
Total Base Non Water Volume:	0



## Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Produced Water	Halliburton	Base Fluid	Water	7732-18-5	100.00000	86.35372	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.13572	

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 WV Department of  
 Environmental Protection

*Handwritten initials*

HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
MC B-8614A	MultiChem	Biocide					
				Listed Below			
LCA-1	Halliburton	Solvent					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
Chemstream StimSTREAM FR 2800	Chemstream, Inc.	Friction Reducer					
				Listed Below			
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			

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Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.						
			Crystalline silica, quartz	14808-60-7	100.00000	13.44598
			Hydrochloric acid	7647-01-0	30.00000	0.03821
			Distillates, (petroleum), hydrotreated light	64742-47-8	25.00000	0.01485
			Guar gum	9000-30-0	100.00000	0.00448
			Alcohols, C11-14-iso, C-13-rich, ethoxylated	78330-21-9	5.00000	0.00297
			Glutaraldehyde	111-30-8	30.00000	0.00250
			Methanol	67-56-1	100.00000	0.00051
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00042
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00015
			Modified thiourea polymer	Proprietary	30.00000	0.00015
			Ammonium persulfate	7727-54-0	100.00000	0.00013
			Ethanol	64-17-5	1.00000	0.00008
			Hydrotreated distillate	Proprietary	100.00000	0.00007
			Oxylated phenolic resin	Proprietary	30.00000	0.00004
			Propargyl alcohol	107-19-7	5.00000	0.00003
			Hexadecene	629-73-2	5.00000	0.00003
			Ethoxylated alcohols	Proprietary	5.00000	0.00003
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00000

\* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

\*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

\*\*\* If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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